

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,969	08/18/2006	Haruyasu Yamaguchi	20555/0207384-US0	2360
7278 DARBY & DA	7590 11/16/200 ARBY P.C	9	EXAM	UNER
P.O. BOX 770			KOLKER, DANIEL E	
Church Street New York, NY			ART UNIT	PAPER NUMBER
			1649	
			MAIL DATE	DELIVERY MODE
			11/16/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/589,969 YAMAGUCHI ET AL. Office Action Summary

omoortonom cummary	Examiner	Art Unit	1				
	DANIEL KOLKER	1649	I				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. / - Extensions of time may be available under the provisions of 37 CPR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - Failur to roply within the six or extended period for roply will. by statute, Any roply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CPR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim- vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this of (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 28 Ju	ıly 200 <u>9</u> .						
2a) This action is <b>FINAL</b> . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
· _							
4) Claim(s) <u>21-45</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
5)☐ Claim(s)is/are allowed. 6)⊠ Claim(s) 21-45 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
OJLI Ciannis) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
1	n□	(DTO 110)					

4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) Notice of Informal Patent Application 6) Other:	
	Paper No(s)/Mail Date.  5) Notice of Informal Patent Application

Application/Control Number: 10/589,969 Page 2

Art Unit: 1649

#### DETAILED ACTION

1. The remarks and amendments filed 28 July 2009 has been entered. Claims 1-20 are canceled; claims 21-45 are pending and under examination.

#### Withdrawn Rejections and Objections

All rejections and objections set forth in the previous office action are moot, as the claims have been canceled. New rejections and objections, necessitated by applicant's amendment, appear below.

## Priority

 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Claim Objections

4. Claim 21 is objected to because of the following informalities: it recites "A monoclonal that is...", which should be amended to "A monoclonal antibody that is..." in order to clarify the claimed invention and to provide proper antecedent basis for the dependent claims.
Appropriate correction is required.

## Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 21-45 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

There are many factors considered when determining if the disclosure satisfies the enablement requirement and whether any necessary experimentation is undue. These factors include, but are not limited to: 1) nature of the invention, 2) state of the prior art, 3) relative skill of those in the art. 4) level of predictability in the art. 5) existence of working examples, 6)

Art Unit: 1649

breadth of claims, 7) amount of direction or guidance by the inventor, and 8) quantity of experimentation needed to make or use the invention. *In re Wands*, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

In the present case, the nature of the invention is complex. The claims are drawn to monoclonal antibodies and methods of using same. Each monoclonal antibody is a unique chemical entity that can be reliably reproduced, except by the hybridoma that makes it. The present claims encompass three antibodies and chimeric and humanized versions of same: 1A10, 1C3, and 82E1. However, antibodies 1A10, 1C3, and 82E1 that bind to  $A\beta$  as described in the present specification were unknown, and therefore, publicly not available. They cannot be reproducibly isolated from nature without undue experimentation, a suitable deposit for patent purposes is required. If a deposit is made under the terms of the Budapest Treaty, then an affidavit or declaration by Applicants or someone associated with the patent owner who is in a position to make such assurances, or a statement by an attorney of record over his or her signature, stating that the deposit has been made under the terms of the Budapest Treaty and that all restrictions imposed by the depositor on the availability to the public of the deposited material will be irrevocably removed upon the granting of a patent, would satisfy the deposit requirements. See 37 CFR 1.808.

If a deposit is not made under the terms of the Budapest Treaty, then an affidavit or Declaration by Applicants or someone associated with the patent owner who is in a position to make such assurances, or a statement by an attorney of record over his or her signature, stating that the deposit has been made at an acceptable depository and that the following criteria have been met:

- (a) during the pendency of the application, access to the deposit will be afforded to one determined by the Commissioner to be entitled thereto:
- (b) all restrictions imposed by the depositor on the availability to the public of the deposited material will be **irrevocably removed** upon the granting of a patent;
- (c) the deposit will be maintained for a term of at least thirty (30) years and at least five (5) years after the most recent request for the furnishing of a sample of the deposited material;
  - (d) a viability statement in accordance with the provisions of 37 CFR 1.807; and
- (e) the deposit will be replaced should it become necessary due to inviability, contamination or loss of capability to function in the manner described in the specification.

Art Unit: 1649

In addition the identifying information set forth in 37 CFR 1.809(d) should be added to the specification. See 37 CFR 1.803-1.809 for additional explanation of these requirements.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 31, 37, 39-40, and 45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 31 is drawn to a humanized form of antibody 1A10, but it depends from claim 30, which is drawn to antibody 1C3 or a humanized form thereof. It is unclear whether applicant considers the two antibodies to be synonymous with one another, or whether claim 31 is drawn to antibody 1A10, which is literally recited, or whether it is drawn to 1C3, recited in parent claim 30.

Claim 39 is drawn to a humanized form of antibody 1A10, but it depends from claim 38, which is drawn to antibody 82E1 or a humanized form thereof. It is unclear whether applicant considers the two antibodies to be synonymous with one another, or whether claim 39 is drawn to antibody 1A10, which is literally recited, or whether it is drawn to 82E1, recited in parent claim 30.

Claim 40 is drawn to antibody 1C3, but it depends from claim 38, which is drawn to antibody 82E1 or a humanized form thereof. It is unclear whether applicant considers the two antibodies to be synonymous with one another, or whether claim 40 is drawn to antibody 1C3, which is literally recited, or whether it is drawn to 82E1, recited in parent claim 38.

Claims 37 and 45 are included in this rejection as they are method claims which require administration of a product recited in an indefinite claim, so one skilled in the art could not determine what products are to be administered.

#### Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 1649

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21, 30, and 32-33 are rejected under 35 U.S.C. 102(e) as being anticpated by Newman (U.S. Patent Application Publication 2005/0152903, published 14 July 2005, filed 10 September 2004, claiming benefit of a provisional application filed 11 September 2003).

Newman teaches monoclonal antibody 1C3; see for example paragraphs [0088] and [0105]. While this antibody does not bind to Aβ, nothing in claims 21 or 30 requires any particular binding; all that is required is that the monoclonal antibody be named 1C3. Therefore the antibody from Newman anticipates claims 21, 30, and 32. Claim 33 is anticipated as Newman teaches that all the antibodies disclosed in his invention can be combined with pharmaceutically acceptable additives; see paragraph [0159].

 Claims 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichimori (U.S. Patent 5,437,995, issued 1 August 1995).

Ichimori teaches monoclonal antibody 1A10; see for example column 20 lines 25-68. While this antibody does not bind to Aβ, nothing in claims 21 or 22 any particular binding; all that is required is that the monoclonal antibody be named 1A10. Therefore the antibody from Ichimori anticipates claims 21-22.

#### Conclusion

- No claim is allowed.
- 10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

Art Unit: 1649

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL KOLKER whose telephone number is (571)272-3181. The examiner can normally be reached on Mon - Fri 8:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniel E. Kolker/
Primary Examiner, Art Unit 1649
November 10, 2009